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ST LOUIS, MO. WEDNESDAY, SEPTEMBER 10, 1902,

Volume LV., No. 37

aint Your Roots

THE THE THE TABLE SHAPE AND ALL AND AL



	Saccharine	Kaffir
	sorghums.	corn.
Year.	Acres.	Acres.
898	183,206	46,911
894	173,502	96,287
895	283,137	184,198
896	360,528	273,058
807	352,528	871,838
888	388,259	* 585,743
899		618,895
900	542,622	645,186
	541,821	618,816
		748,176
	figures indicate	their prog-

The Dalry

Missouri Dairy Association. The chirteenth annual meeting of the high of Columbia. Now how couples the held at Columbia. Now how couples the plant of Dalry Russian and a columbia to the held at Columbia. Now how couples the held at Columbia. Now how couples the held at Columbia. The header of Dalry Russian and the rest of the header content of the bustle conduction of the held at Columbia. Now how couples the plant of Dalry Russian and the rest turner's College, has been selected as acting coverage of the header conduction of the header couples the headers of knowledge on this branch of agriculture and keep in touch with the progress the industry is making in dairy communities. It is a banner year for the farmer generally. Good crops will insure a surplus from such meetings. The fact that the meeting will be held at the seat of the State Agricultural College and Experiment Station is given an added interest by the completion of the \$40,000 dairy building, which is the latest addition to the college group. The sessions of the the college group. The sessions of the thirteenth annual meeting will be held

Per cent.	1 lb. butter.	1 lb. butter.
3.0	28.56	13.28
3.1	27.65	12.86
3.2	26.78	12.45
3.4	25.20	11.72
3.6	23.80	11.07
3:8	22.56	10.48
4.0	21.42	9.96
4.2	20.40	9.49
4.4	19.47	9.05
4.6	18.63	8.66
4.8	17.85	8.30
5.0	17.14	7.97
5.2	16.48	7.66
5.4	15.87	7.38
6.0	14.28	6.64
I insert	this table not so	much that any

aroused upon the point, he will not rest content until he has a "Babcock," and henceforward and to his great advantage he will know exactly what every cow in his herd is doing and he most likely will weed out the unprofitable animals and enweed out the unprofitable animals and endeavor otherwise to improve his herd, their care and feeding, until he has a dairy herd worthy of the name. It will be seen by the table that 3 per cent and 6 per cent milk are the extremes noted by it; while these are not the extremes as found in all milk, yet they are sufficient to illustrate the method of computation I This is a ridiculously small return in view here in mind. Commencing with the first of what may be produced with only good cows, the average return from which is second nature for us to continue indeficitly.

could in all milk, yet they are sufficient to illustrate the method of computation IT have in mind. Commencing with the first column of figures at the top of the page and reading across, it is found that 3 per cent milk requires 2.56 pounds, or its equivalent, 13.28 quarts to make a pound of butter; while at the bottom of the columns of figures it is seen the 6 per cent milk requires 14.28 pounds of milk, or 5.64 quarts, to make a pound of butter, Now to test one's milk to ascertain the rate of its butter content, test the cream from the milk of each cow separately. Either weigh or measure the milk and set it to cream, and when fully creamed, skim it cleanly and let the cream ripen as usual. Then, as the cream will most likely be in too small a quantity to churn it comes, it has not comen, is a long way inside the possible limit of production, and this yield can be produced at a very slight increase in expense for feed.

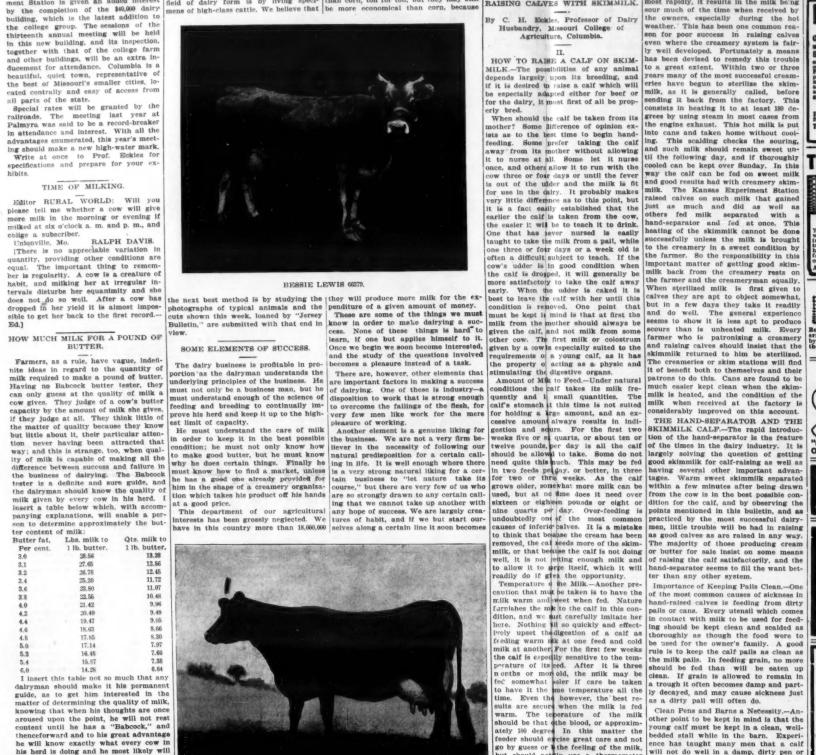
What is it that the dairyman should understanding at the cream ripen as usual. Then, as the cream will most likely be in too small a quantity to churn it comes, if the produce of the pr

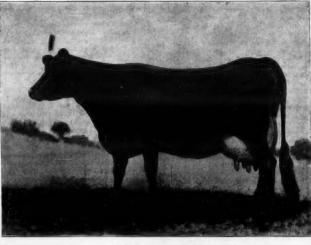
## What are Humors?

They are vitiated or morbid fluids coursing the veins and affecting the tissues. They are commonly due to defective diges-tion but are sometimes inherited. How do they manifest themselves?

In many forms of cutaneous eruption, sait rheum or ecsema, pimples and boils, and in weakness, languor, general debility. How are they expelled? By

### Hood's Sarsaparilla which also builds up the system that has inffered from then





HALLIE KINLOCH 90148.

cows, the average return from which is second nature for us to continue indefi-

go by guess or whe feeling of the milk, but should actaly use a thermometer often enough thenow what blood heat feels like. If and separator is used, the milk may selby be fed while still warm enough used immediately after separation, but will usually be necessary to heat itome artificially if used for young calve especially during cool weather.

separate the butter from the butters wash and "work" the butter as and weigh it, then there will be only and weigh it, then there will be only approblem to solve to get the rate butter yield of that batch of milk, roblem will be thus: So many ounces that the conformation is not always as the butter yield of that batch of milk, roblem will be thus: So many ounces that a conformation is not always as the putter yield of that batch of milk, roblem will be thus: So many ounces that a test conformation is not always as the grown source of fifth, and may be checked by attention to cleanliness and carefully washing the cow's teats with a little weak acetic acid solution. Such milk has been fed to anima's that ate it readily and without harm.

The cause of "bitter milk" is not well understood, though several forms of bacteria have been found in it, and lately and without harm.

Second, he must understand the nature of feeds and be able to estimate the value of any given combination with at least approximate correctness. To do this he was traced to the feeding of turnips, where the surp principles of the chemistry of feeds. Here is where too many dairymen become frightened. At the word "sclemitific" they drop back as if it were some times languor, general debility, we are they expelled? By

\*\*Odd's Sarsaparilla" also builds up the system that has ed from them.

\*\*The butter yield of that back on all washing the cow's teats with a little weak acetic acid solution. Such milk has been fed to anima's that ate it readily and without harm.

The cause of "bitter milk" is not well understood, though several forms of bacteria have been found in it, and lately two new forms of countries of the first two new forms were found in bitter cheese and bilter cream. In one case it which has been fed to anima's that ate it readily and without harm.

Second, he must understand the nature of feeds and be able to estimate the value of feeds and be able to estimate the value of any given combination with at least approximate correctness. To d

RAISING CALVES WITH SKIMMILK.

By C. H. Eckles, Professor of Dairy Husbandry, Missouri College of Agriculture, Columbia.

This has been one common reason for poor success in raising calves even where the creamery system is fair-

warm. The teperature of the milk is fed should be that dthe blood, or approximately 100 degree in this matter the feeder should excise great care and not go by guess or with feeling of the milk, but should active years. peeded stall while in the barn. Experience has taught many men that a calf will not do well in a damp, dirty pen or stall. The calf needs all the sunlight it can get, and the well-lighted stall is always best. In the summer the calf





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HOPTICULTURAL TALK.

ITEMERITED—While the mullery take the mull take the mullery take the mullery take the mullery take take the mullery take take the mullery take take the mullery take the mullery take take the mullery take take the mull take the mullery take take the mullery take take the mullery take the mullery take take the muller MULBERRIES.—While the mulberry is not (and probably never will be) of much value as a market fruit, we must all admit that it is of real value when we consider the birds, and deserves more attention than has been given it in the part of the little feathered friends of past. These little feathered friends of past. These available, and what is there that can be so easily produced? On many farms there is more or less moist land, where scarcely anything else could be grown. The mulberry would thrive there and give good returns. There are a number of good varieties of my acquaintance.

Young trees grow very rapidly. Two-year-old trees in the nursery have made a growth equal to that of the Carolina Poplar. I would call it a very desirable shade tree for the yard or lawn, because of its rapid growth and attractiveness, also for the reason that the fruit is white and does not soil children's clothes or make a stone walk (that might be be-reath it) unightity. Fruit is very large desirable variety. The name apply to the tree, as it is in-be dwarf, but to the fruit, which

sent me were as nearly perfect in every particular as any I have seen. Very large, highly colored and delicious in quality. The soil there is black and quite sandy

The soil there is black and quite sandy. All varieties of pears do well there, and show little or no blight. Bosc is a first rate pear, a little dull in appearance; blights but little. Souvenir du Congress resembles Bartlett so closely in appearance that it could be sold for the same. Fruit is uniformly large, and though fairly good, is much inferior to Bartlett. Clairgeau, but for its tendency to blight, might be called very promising.

letter from Hartville, Mo., says that ract of land lying north of there on Bear creek, for a fruit farm. The syndicate has contracted with the Frisco railway to Examples of this have come to the attention of the writer this year in localities that have been received for the manager to employ hands and clear off 1,000 acres have been received for the manager to employ hands and clear off 1,000 acres of the land, which the syndicate proposes to put in apple trees next spring. A steam stump-puller will be used in A steam stump-puller will be used in clearing off the ground, and a disk gang blow, operated by an engine, will be used to plow the land. Two thousand additional acres are to be ready for planting during 1904, and the remaining 2,000 a fearinge is bad, the roots of the surface of the ground, and so are more injured in the case of lack of moister in the surface soil. Drouths are selver in the surface soil. Drouths are selver in the surface soil.

during 1904, and the remaining 2,000 a sear later.

The only comment the RURAL WORLD has to make on such an enterprise is that its going to a great deal of expense to establish such a fruit farm. To get a very eligible position or site it may be discessary to remove the forest, pull out the stumps, etc., but it is a very costly transaction. There are to be found in many places cultivated farms that furnish just as good orchard sites, with the land already cleared, with nothing to interfere with immediate cultivation and danting. Where such farms can be purchased they offer far better facilities for fruit-growing to an unbroken forest. It may pay to go to all this labor and exbense, and we hope it will. Missouri fruit-growing is profitable, intelligently



inside of the chest, where the rate of the evaporation is very greatly impeded.
When we turn to the breathing of plants, we find that they, too, are only able to accomplish that very important work as rapidly as it needs to be done by having a very broad surface against which the air may come, but so placed that it shall be kept always wet; and, just as in our case, it would never do to have this surface exposed to the open air, so the real breathing surface of plants is spread out on the inside of their structure, where hot, strong winds can never reach it. If it were true that no water need be used by plants except that water need be used by plants except that which is assimilated during their growth and reproduction, and in keeping the cells distended and turgid, so that wilting shall not occur, then there would be little need for irrigation anywhere except in the most arid of arid regions, for then even the hygroscopic moisture of a dry soil would be sufficient in quantity to supply the demands of almost any land plant.

illi frost the trees are loaded with green and ripe fruit. Berries are of medium size, and one of the best to eat. Core and seeds are not noticeable and the flavor is very good. We have a number of other varieties on trial. Kansas we consider of no special value, and would not recommend. Gaston and Munson are very large and quite productive, but have too much Russian blood in them to be for the best quality, though all right for the birds.

OTHER GOOD PEARS.—Some time ago a list of good pears was given in these columns. I will now call attention to a few more that are now fruiting here. Idaho: Although this delicious pear has been condemned in many sections because of its tendency to blight, it seems to have found a place near here where it thrives admirably. A reader of the RURAL WORLD living just across the tiver from us called my attention to what he considered the finest pear he ever saw, it proved to be the Idaho, and specimens sent me were as nearly perfect in every particular as any I have seen. Very jarge, highly colored and delicious in quality.

DRAINAGE AND ORCHARDING.

clay soils, and clay soils are the ones that need most to be drained, says an exthat need most to be drained, says an exchange. This lack of drainage is doubtless largely responsible for the failure of thousands of orchards. The clay soil, even on hilsides, holds too much water for the good of the tree-roots during wet times, whether those times be in fail, winter or spring. It not infrequently happens that a tree is set out on a clayey hillside. It leaves out well, but after that the leaves dwindle in size and become sickly in appearance. Finally the tree dies. We have seen this caused apparently by heavy rains saturating the clay soil and keeping it full of moisture during the time when the tree was attempting to form new rootlets and root hairs. Examples of this have come to the attention of the writer this year in localities that have had rains every day for about two months. Poor drainage is apparently the cause.

Summer drouths are given as the cause of the death of some fruit trees. Yet if the soil had been thoroughly drained to a depth of three feet the roots of the trees would have struck so deep that drouth would affect them but little. When change. This lack of drainage is doubt-

they offer far better facilities for rowing to an unbroken forest. It hay to go to all this labor and example it will. Missouri forwing is profitable, intelligently forced flesh of an apple is distinctly bitter to the taste, but there is much variation in this. Sometimes the bitterness is very slight, in other cases almost equal to quinine. But such bitterness sometimes results, also, from other causes. Other fungi produce a similar taste in the affected fruit, though those usually attacking stored apples have no such effect. The musty flavor due to common molds is altogether different. If the word rot is not especially appropriate. The affected tissues are never slush-soft. There is, indeed, no extra accumulation or incorporation of water. The spot is hard and firm, and at length becomes sunken somewhat from the common and seeds for all planting and seeds for posts.

It is a street Lily the street of the street

The watering of trees, vines and shrubs in drouthy seasons is often done in such a way as to injure them. Ordinarily the water is run onto the soil, or thrown upon it. This method is bad. It causes the surface soil to cake, and in that condition it increases the capillarity or water-conducting power of the dir. That

by on it. This method is bad. It causes the surface soil to cake, and in that condition it increases the capillarity or water of conducting power of the dirt. That means that whatever moisture may be in the soil and subsoil will pass upward more rapidly, evaporate and be lost. Instead of hardening the surface soil around trees, it would be better, in drouthy seasons, to break it up into a dust-mulch, in which form it checks the evaporation of the soil and subsoil moisture.

The best method of supplying water in orchards, vineyards and small fruit orchards, vineyards and small fruit ardens is to pour the water into holes driven into the soil near the roots. A pointed hardwood stick will answer to the makes the holes in the ground. Water thus supplied will reach the subsoil, spread through it in the natural veins and reach the roots and fibrils from below. As the water ascends by capillary attraction, it will dissolve the plant-food and supply it to the roots. No hardening of the surface soil results from this mode of supplying water to the trees.—Rural Californian.

Solution is increases the capillarity of water and below in the subsoil. The subsoil moisture is the price quoted for the standard twelve them have been completed to accept bearrel. Complaints against this practice have been made, but the shippers claimed that they had large contracts with cooperage firms for barrels similar to the ones they send to all their shippers stating that they will only accept barrel shipments in standard barrels.

On account of the difference in size between the St. Louis and New York barrel the cold storage men preferred to buy the castern product, claiming that they could not get purchasers for the St. Louis output in states east of Illinois.

In reference to the injurious effect of certain insecticides upon a variety of plants a recent bulletin of the Agricultural Experiment Station of Tennessee contains reports of experiments conducted by S. M. Bain on the action of copper on leaves. The investigations were devoted chiefly to the effects of fungicides on peach trees. It is concluded that in consequence of the thin cuticle of the peach leaf the copper solutions used in spraying are absorbed, and in this way an injury results in the growing cells. Lime, if it does not entirely neutral ze, at all events retards the injurious action.

VALUE OF SMAIL FRUITS.

Not all farmers seem to know the value of small fruits to a family when grown in their own gardens. You commence with strawberries; they continue about a month. You pick perhaps from six to knew them on the table, if you please, at breakfast, diner and tea, and you want little else except bread and butter. In one way or another the family consumes about eight quarts a day, and while they last no medicines for bodily aliments are required, as a quart of strawberries daily will generally dispet all ordinary diseases

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BORDEAUX MIXTURE.

Prof. Heach of the New York experiment station gave an object lesson in the late of the mixture for use. He said the o'd way was to mix strong solutions of lime and copper sulphate, and afterwards dilute to mixing. Slack the lime by putting on only a little water at a time, just enough to keep it from burning, and good lime or limps left. When it is slack, keep it corn a long time. Make what is called a "saturated solution," which is all that can be dissolved in the water, and this is about three pounds to the gallon. You can mix throw pounds to the gallon. You can mix throw pounds to the gallon. You can mix three pounds to the gallon to the core was a test, and you you desire to elime or the copy per sulphate.

Mr. Odell described a new way of slacking lime that had proved very satisfactory to him. He filled a sack about half full of lime, and suspended it in a tub of the pounds. The pounds is the pounds the pounds and the pounds that the pounds the pounds the pounds the pounds that the pounds the pounds the pounds that the pounds the pounds that the pounds that the pounds the pounds the p

MUST USE STANDARD BARRELS.

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VALUE OF SMALL FRUITS.

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A bulletin of the Department of Agriculture says that the edible podded peadeserves to be better known among us. Many varieties are successfully cultivated in Europe, but here they are grown chiefly by amateurs and are hardly in the market.

The pea has very tender pod, the ordinary parchment-like lining being much attenuated. The pod is thicker and more fleshy than the pod of the shelling pea. It is gathered when the pea is just forming and used, pod and all, exactly like string beans. Some varieties tested were found to be excellent in flavor and texture.

Hundreds of trees are every year dis

country to properly fertilise the blossoms, and as nature has made but little pro-vision in the clover plant for this im-

imal life. One part, called the pistil, is usually situated about the center of the cation from the outside to the seed producing part of the flower. This is surrounded by the stamen, or pollen producing the stamen of the production of the stamen of the ing part. Or in some cases-clo instance—one or more stamens are plus at one side of the pistil. In other ca

tact with this pistil down which it passes to the seed-producing portion of the flower there will be no seed produced. In clover blossoms both stamen and pistil are situated entirely within the little tubes where the wind cannot help to fertilise. It is here that nature makes one of her most striking provisions and gives as a first attraction a most pleasant and far-reaching perfume, and insects are attracted—lures them on by producing an abundance of honey, or, more properly speaking, nectar tucked away far down the little tubes, where the little bees have to strain and work very hard to get it, and in doing so dislodge the pollen from the stamens, scattering it throughout the tube, where some is very likely to be act with this pistil down which it passe where cucumbers are raised in winter, the growers have always to keep a hive of bees among their vines or the little cucumbers all fall off. With such strik-ing lessons as this brought to our notice so forcibly it seems to me we, as farm-ers, fruit-raisers, truckers and bee-keep-ers, should cultivate an intimate friend-ship.

Some one has said that every bee man should carry a knife when working among the bees and promptly behead all drone brood. Now, it is a question with me whether this would be wise or not; me whether this would be wise or not; for when bees want to raise drones the queen will immediately refill these cells and begin to raise another brood, not only consuming much honey, but requiring the attention of many bees to prepare it, when if they had been let alone they might be satisfied to not raise any more and those already hatched could help themselves to the honey in the combs. This is an interesting and somewhat important subject, and we would like to hear from others on the question—"there is wisdom in counsel," you know.

PUTTING UP STRAINED HONEY.

The proper way to send honey to the general market is in the comb. The reason why this course is preferable is that the public has been deceived so often with the imitation article, and the deceit exposed in the press so many times, that the consumer looks with a suspicious eye on strained honey. But where the product is to be disposed of among the beekeeper's own acculatiances. the liquid is uct is to be disposed or among the oper-keeper's own acquaintances, the liquid is the best shape to handle it in. The great trouble which many apiarists have met with in handling honey in this form has been the difficulty in canning it so that it would not leak out. There is nothing

Hundreds of trees set every year die because of the neglect of the owners. It so to Company, writes in "Gleanings" of Nov. 15 that they have been paying during the past month from 13½ to 15½ cents and third Tuesdays, and could have used several tons more of it at that price if they had known where it at that price if they had known where it at that price if they had known where it at that price if they had known where it at that price if they had known where it at that price if they had known where it at that price if they had known where it is magnificent San Joaquin Valley. FARMERS AND BEE-KEEPERS.

Before bumble bees were introduced into Australia, farmers found it impossible to raise paying crops of clover seed, says D. B. Thomas in a contemporary. Bome scientific person suggested that it was because there was no insect in that country to properly fertilize the blossoms, and as nature has made but little pro-



Seed Wheat

Malakoff whenh the bequires less seed per acre, stools better and gives a larger yield than any trulking the stools better and gives a larger yield than any "TURKING HER", \$1.50 per bo., From "TURKING HER", \$1.50 per bo., From "TURKING HER", \$1.50 per bo., From "BUILGAME AND EST., \$1.00 per bo., all "BUILGAME AND THE STATE TO des per bo., "BARSOTH WIFTER RYK." To des per bo.

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A pleasant home, four acres, dwelling, 78-foot poultry house, barn, fruit treer, small fruit. Good town; 73 miles west of St. Lonis, on Wabash E. E. Now in use for breeding fancy poultry. Particulars on application. NSPERTIE FOULTRY SANCH, NEW FORESS. M.

\$1.25--BUY8--1,000 Strawberry Plants

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THE STRAWBERRY PLANT MAN, ANNA, ILL.
Please mention this paper when writing.

STAR PEA HULLERS. Capacity ten to fifteen bushels per hour. We refree and circular.

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TURKEY RED SHED WHEAT. Threshed with-out gotting wet. Yielded 45 bu, per acre. Tested 62 pounds from machine. 51 per bu. W. A. HINKLE. B. No. 1, Decatur, Ill.

STAPK TREES bost by Test-77 YEARS
PRUIT BOOK free. We PAY CASH
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No Pit Required.

Metal Frame, 9 inches high. Steel Joist, Heavy Casting.

Scale shipped complete except the few plank for the flooring, therefore cost of erecting will not exceed \$6.00. Our 5-year guarantee is positively giltedge; will replace any defects within ten days after notice free of charge. We save you the cost of an expensive pit and 700 to 900 feet of heavy timber. Scale warranted to be one of the most durable, economical and reliable scales on the market.

Write for particulars. McDONALD BROS., P. O. Box 887, Pleasant Hill, Mo.

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LOW RATE HOMESEEKERS' EXCURSIONS.



TUESDAYS August 5th and 19th.
September 2d and 16th
October 7th and 21st. ... VIA THE ...

IRON MOUNTAIN ROUTE To Certain Points in the

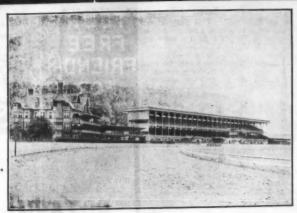
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RATES FOR THE ROUND TRIP

FINAL LIMIT OF TICKETS, 21 DAYS.

STOP-OVERS will be allowed within transit limit of 15 days going after reaching first homeseckers point en route.

For further information or land Pamphlets, Folders, Maps, etc., address any agent of the company, or H. C. TOWNSEND, General Passenger and Ticket Agent, St. Louis, Mo.



Beautiful Mile Track, Club House and Grand Stand

# FORTY-SECOND ANNUAL 1902-GREAT ST. LOUIS FAIR-1902

Opens Monday, October 6.

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COMPETITION OPEN TO THE WORLD!!

SPACE AND ENTRIES FREE!

... REDUCED RATES ON ALL RAILROADS...

Catalogue and Beautiful Poster sent to any address Free.

ST. LOUIS FAIR ASSOCIATION.

JNO. HACHMEISTER Secretary.

# Live Stock

DATE CLAIMS FOR LIVE STOCK SALES.

Claim dates for public sales will be published in this column free, when such sales are to be advertised in the RURAL WORLD. Otherwise they will be charged at regular rates:

POLAND CHINAS.
October 18.—J. Lee White, Palmyra, Mo., Oct. 26.—E. E. Axline, at Oak Grove, Mo.

Oct. 28.—E. E. Axline, at Oak Grove, 20.-October 25.—Sensintaffar Bros., Brook-field, Mo., Poland Chinas. October 30.—Hart & Minnis, Poland Chi-nas, Edinburg, Ill. October 31.—Hedges & Walker, Poland Chinas Pana, Ill.

November 14.-Harry E. Lunt, Burden,

ember 15.-A. B. Mull, Iola, Kas., Poland Chinas

Manager A. J. Lovejoy, Roscoe, III.; ident; Char Clerk, Charles F. Mills, Springfield, III. Feb. 13.—Biltmore Farm's annual sale of Feb. 13.—Biltmore Farm's annual sale of Berkshire brood sows, Biltmore, N. C. SHORTHORN SHOWS AND SALES.

Sturgeon, Mo. HEREFORDS. October 21-22.—American Hereford Breeders' Association, Kansas City, Mo. Week of American Royal,

November 18-19.-Marshall County (Kas.) Hereford Breeders' Association, Herefords; E. E. Woodman, secretary

fords; E. E. Varian Hereford Breeders' Association, Chicago, Ill. Week of International Live Stock Exhibition. STEERS.

Cecember 8-9.—J. E. Logan and Benton Gabbert & Sons, Herefords, Kansas City, Mo.

December 10.—T. H. Pugh, Herefords, By H. J. Waters, Dean of the Agricultural College, Columbia, Mo.

December 10.—T. H. Pugh, Herefords, Kansas City, January 26-31, 1963.—T. F. B. Sotham, Herefords, Kansas City, Mo. January 28-29.—Combination sale of Here-

years, and this year, up to date, have exhibited at two state fairs. At Missouri State Fair they won 23 champion first and second prizes—all there were in first and second prizes—all there were in sight. At lows state fair they carried off every prize they contended for—22 in number. Those wanting Down sheep, either Oxfords or Southdown, will find Messrs. McKerrow are the men to tie to, and they will treat their customers right.

We have received the premium list of the National Exhibition er 5.-J. D. Jesse, Browning, Mo., Swine to be held under the auspices of Poland Chinas.

BERKSHTRE SWINE.

Oct. 23-22. 1992—Combination Hog Show sale, Kansas City, Mo.

November 12.—Manwaring Bros., Lawrence, Kan.

November 13.—Kansas Breeders, Manhattan, Kas.

November 13.—Combination sale Berkshires, at Manhattan, Kas.

Nov. 6, 1902.—Combination sale, East 8t.

Louis, Ill.; Manager, C. H. C. Anderson, Carlinville, Ill.

Dec. 3, 1902—Combination sale Berkshires, at Manager A. J. Lovejoy, Roscoe, Ill.; Clerk, Charles F. Mills, Springfield, Ill.

Geo. S. Prine, Oskaloosa, Iowa, vice-president; Clerk, Charles F. Mills, Springfield, Ill.

Secretary. the American Berkshire Association in

tmore Farm's annual sale of brood sows, Biltmore, N. C. RN SHOWS AND SALES. Finley's Shorthorn herd, at Brecken-ridge, Mo., on Wednesday, September 17th, when he will sell his entire herd of high-bred Shorthorns. These cattle are now in good breeding condition and have Hill, Mo.
Oct. II.—J. C. Hall, Hallsville, Mo., sale always been kept that way. The founda-Those wanting cattle that are regular in breeders and money-makers, should at the tend this sale, and they can get them of worth the money. For catalog send to Mr. M. L. Hall, or J. F. Finley, Brecker

Geo. McKerrow & Sons, Sussex, Wis-advertise their champion flocks of Oxford in the gains made and in the cost of the advertise their champion flocks of Oxford and Southdown sheep in our columns. These gentlemen have been winners at the leading shows in America for several vears, and this year, up to date, they

at our State Fair has excited much comment and admiration from competent quarters, and will materially add to the

THE SHORTHORNS .- G. M. Casey, Clerk, Charles F. Mills, Springheid, J. Secretary.

THE SHORTHORNS.—G. M. Casey, Clinton, Mo., and his herd manager, E. B. Shorthorn Shows AND SALES.
Octher 30.—Central Mo. Shorthorn Breeders' Asso. Combination Sale, at Moberly, Mo. E. H. Hurt, Sec., Clifton Hill, Mo.
Oct. 31.—J. C. Hall, Hallsville, Mo., sale at Centralia, Mo.
Nev. 11.—J. J. Littrell, E. B. Stewart, Dr. J. F. Kelth and J. H. Cottingham, at Sturgeon, Mo.
HEREFORDS.
October 31.22 —American Hereford BreedOctober 31.22 —American Hereford BreedThese wanting cattle that are regular to form as ever in his views of other men's opinThose wanting cattle that are regular.

THE SHORTHORNS.—G. M. Casey, Clinton, Mo., and his herd manager, E. B. Mitchel, are jubilant. T. J. Wornall & Son, Liberty, Mo., are well satisfied. Frank W. Harding, Waukesha, Wis., is as usual not complaining. E. W. Bowen, Delphl, Ind., cannot exactly understand as the complaining of the series of Scotch bulls. The two Sun, Iswa, is not at all discouraged. W. P. Harned, Vermont, Mo., is as charitable as ever in his views of other men's opinThese wanting cattle that are regular. ons. Gentry Bros., Sedalia, Mo., are leased with the results. H. A. Barber of Miss iri gained what he sought-exice. If the Shorthorn breeders and whose names are given in the ere called on to express them-e decisions rendered by H. C. foregoing were called on to express them-selves on the decisions rendered by H. C. Duncan and O. C. Bigler in the Shorthorn classes at Sedalia last week they might condense their depositions and shape them somewhat in accordance with the conjecture offered. Mr. Casey certainly has occasion to feel just right. He had show cattle on the grounds, if ever prize-winners were produced, and they were in excellent condition, with the ex-December 180—T. H. Pugh. Herefords, Kansac City, Mo. January 28—S.—Combination sale of Herefords, Kansac City, Mo. January 28—S.—C. A January and others, Peorle, Ill., at Chicago.

Pédraury 20, 11, 19—C. A. Blannard and others, Peorle, Ill., at Chicago.

Pédraury 20, 11, 19—C. A. Blannard and others, Peorle, Ill., at Chicago.

Pédraury 20, 11, 19—C. A. Blannard and others, Peorle, Ill., at Chicago.

Pédraury 20, 11, 19—C. A. Blannard and others, Herefords, Kansac City, Mo. May 57, 19—C. Chicago.

Pédraury 20, 11, 19—C. A. Blannard and others, Herefords, Kansac City, Mo. May 57, 19—Cholic Canterol, Mo. Shorthers, Mo. Peorle, Ill., at Chicago.

Pédraury 20, 11, 19—C. A. Blannard and others, Herefords, Kansac City, Mo. May 57, 19—Cholic Canterol, Mo. Shorthers, Mo. Shorthe

November 1.—T. W. Ragnala, T. A.

November 1.—T. W. Ragnala, T. A.

November 1.—W. Ragnala, T. A.

December 1.—W. Ragnala, T. A.

Soundair 1.—W. Ragnala, T. A.

December 1.—W. Ragnala, T. A.

Soundair 1.—W. Ragnala, T

nds, or 169 bushels; corn Violet 4th and Runaway Girl; third to brings letters—and lots of them. With many thanks.—J. M. Goodman, Albion, Ill., Sept. 3, 1992." Any readers of this paper who have sheep to dispose of will find purchasers, "and lots of them," by using the columns of this paper. There is no class of live stock more valuable than sheep just now, and those wishing to sell have only to make known the fact to find buyers.

Geo. McKerrow & Sons, Sussex, Wis., advertise their champion flocks of Oxford

> still further emphasize the of clover as a feed and the importance of using this roughness in full feeding.
>
> It will be noted that in this experiment a bushel of corn produced five pounds of gain when combined with timothy, and 6.75 pounds when fed in connection with clover and corn fodder—a difference of 1.75 pounds, which at \$5 per 100 means \$% cents per bushel of corn.
>
> (To be continued.)
>
> BEEF BREEDS AT THE FAIR.
>
> The magnificent exhibit of beef cattle is the character of the "white-faces" in the character of the product in representative excellence what it lacked in numbers. Only two herds sought rosettes, but the battle could scarcely have been a more trying one for the nerves of a judge than that which ensure the character of the product in the ch by Gudgell & Simpson. Ribbons were not tied in any of the classes in that formal ment and admiration from competent quarters, and will materially add to the reputation of Missouri as one of, if not the greatest, cattle raising states in the union. This, with the position already achieved as the foremost swine-grower of the country, cannot fall to bring our state more prominently into notice as containing all the elements of successful farming—either with stock, grain or fruit raising.
>
> The "Breeders' Gagette," a fully competent authority, thus comments upon the quality and extent of the cattle exhibit at the Fair: manner sometimes observed in the showbosom his preferences, which were uniformly well founded. His task was difficult. Both herds showed in the top condition, and in neither was there any other than genuinely good show cattle. Mr. Duncan found that he needed assistance before he had finished, and importuned Omer C. Bigler of the famous Iowa Shorthorn breeding firm to come to his aid. Mr. Bigler assumed the job with his characteristic earnestness and intelligently aided the senior judge until the Here medium cows at \$3.003.00; fair cows \$2.50.

Mr. Bigler assumed the job with his specific agreements sent at 44.756 characteristic earnestness and intelligently alded the senior judge until the Hereford cattle ended. Beau Donald 5th, a three-year-old 2,200-pound son of Beau Donald, had license to leave the fair as champion bull. He was bred in old Kentucky, and, like many of the Kentucky folk who have gone over to Missouri, he has distinguished himself. We shall have more to say about him, as well as other more to say about him, as well as other members of both the Harris and Gudgell & Simpson herds, after their appearance in the show-yard at Des Moines, where they will come in icontact with perhaps the best show herd James A. Funkhouser dever bred. Detailed awards are appended:

Aged bulls—First (one entry) to O. Harris on Beau Donald 5th, by Beau Donald 5th, by Good Enough; second, to Gudgell & Simpson on Martinet, by Aaron. Year-lings—First to Harris on Good Enough 3d, by Good Enough; second, to Gudgell & Simpson on Belsarius by Millitant. Calves—First to Gudgell & Simpson on Belsarius by Millitant. Calves—First to Gudgell & Simpson on Martinet, by Beau Donald 5th, a Aged cows—First to Harris on Russett, by Royal Flush; second to Gudgell & Simpson on Modesty 2d, by Beau Brummel; third to Gudgell & Simpson on Millitant. Calves—First to Gudgell & Simpson on Modesty 2d, by Beau Brummel; third to Gudgell & Simpson on Millitant. Calves—First to Gudgell & Simpson on Modesty 2d, by Beau Brummel; third to Gudgell & Simpson on Millitant. Two-year-olds—First to Gudgell & Simpson on Modesty 2d, by Beau Brummel; third to Gudgell & Simpson on Millitant of Gudgell & Simpson on Millitant to Gudgell &

Breckenridge, Mo., September 17 Having unexpectedly sold the Crystal Springs Farm, and on account of my advanced age, it becomes necessary for me to disperse my entire herd of Shorthorns, numbering 100 head, on the above date. They are strictly a business lot, as will be seen by the number of young things included. The offering will include pure Bates, Oxford and other families, Bates with Scotch tops, etc. Stock bulls, Chief Violet 4th 111304, a pure Cruickshank, and imp. Primate of Daimeny 150746, a pure Scotch, bred by Earl of Rosebery, will be included. The most of the cattle have been bred at Crystal Springs and are the result of my thirty-five years experience as a breeder of Shorthorns. Free conveyance will be furnished to and from all trains. Lunch on the grounds. For Catalogues address,

J. F. FINLEY or T. P. & M. L. HALL, Breckenridge, Caldwell Co., Mo.

**CRAND DISPERSION SALE** 

**CRYSTAL SPRINGS HERD** 

SHORTHORNS

100 HEAD. Sale will be held at the farm adjoining

Protect your calves against Black Leg with BLACK-LEG-INE ..HEREFORDS..

600 HEAD IN HERD. YOUNG STOCK FOR SALE.

CUDCELL & SIMPSON, INDEPENDENCE, MISSOURI



Sunny Slope Herefords.

150 head for sale, consisting of 50 very choice Cows from 3 to 8 years old. 50 Yearling Heifers, and 50 Bulls from 8 to 24 months old. : : : Prices Very Reasonable. Write for what you want,

C. A. STANNARD Emporia. Kansas.

ST. LOUIS NATIONAL STOCK YARDS. THE LIVE STOCK MARKET OF ST. LOUIS.

coested at East St. Louis, directly opposite the city of St. Louis. Shippers abould see that their stock is billed directly to the

National - Stock - Yards. C. G. KNOX, V.-Pres. C. T. JONES, Gen. M'gr. L. W. KRAKE, As'st. Gen. Mgr

RAVENSWOOD HERD OF SHORTHORNS. LAVENDER VISCOUNT 124755, Champion Bull Two Years in Succession. Winner of the Armout Trophy for beat bull at the Kansac Cityahow of 1960 and grand champion over all at same show, also grand champion over all at the Obicago International of 1961 heads herd sassisted by the Cruickshank Victoria bull Royal Hampton by Merry Hampton. Bulls and helfers for sale. C. E. LEONARD & SON, Bell Air. Cooper County, Mo. Ed. Patterson, Managar. Telegraph and shipping station, Bunceton, on Missourf Facilie Ry.

Registered Shorthorn Cattle AND POLAND-CHINA HOGS,
Bred and For Sale by H. A. BARBER, WINDSOR, MO.

20 BULLS-25 YOUNG COWS

S. W. ROBERTS, PLEASANT GREEN, MO.

FOR SALE. One good 4-year-old Registered Hereford Bull; weighs 2,600 lbs. One coming 2-year-old; weighs 1,600 lbs. Also Bull and Heifer Calves, all regis-tered. Prices to cell. Write or come and set them ED. C. WEERS, Eldon, Mo.

FOR SALE. cinorthorns and Polled Durham Breeders an Feeders at low prices. Also fine Berksbire Pigs a prices that will take them. SHOEMAKER & CO. Harrodaburg, Ky.

ABERDEEN ANGUS

ABORTION Retention of Pinces Kellog's Condition Powders's a positive ense those diseases. Write for circular, Adress, H. W. EELLOG OO., St. Facil Bits D. R. THOMAS,

of Shorthorn cattle. Horses an China hogs, Bronze Turkeys, Bar locks. Address D. R. THOMAS, E. F. D. No. 1, MONETT, MO.

ENGLISH Red Polled Cattle.

Encilled Pure blooded and extra

fine stock. By Your orders solioited.

L. E. HASBLITHE, Dorohester, Greene Co., Me BULLS. One 2-yr., three yr's.; 2 reds, 2 roans; 3 Rose; good quality; Estes bred; will sell at a bar-gain if takes soon. Call On or Address L.- G. JONES, Towanda, III.

Shorthorn Cattle, Berkshire Hogs, Angora Gosts, Light Brahma and Golden Sesbright chickens. Stock and ages for sale. Call on or address J. J. LITTRELL. Sturgeon, Mo.

Highland Park Herd. Pol, Durham Cattle, Durce-Jersey Hogs. Young ock of both kinds for sais. Inspection of the ord invited. Address G. W. Johnson, Lexington, Mo.

SHORTHORN HEIFERS.

red cows and heifers for sale—130 head rite for prioss.

W. H. FULKERSON & SONS, Jerseyville, Jersey Co., Ill.

AUCTIONEERS. Jas. W. Sparks,



Live Stock Auctioneer, J. ZACK WELLS,

Sales made anywhere on earth Correspondence Solicited. W. D. ROSS

OTTERVILLE, MO.
Live Stock Auctioneer,
Your Patronage solicited. Terms reasonable.

H. W. KERR, BREEDER OF RED POLLED CATTLE. Good young bulls for sale. Carlinville, III.



# Horseman



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THE WIMALS

alf cent's orth saves 2 quar's milk and anch flesh. hose all-e original dairy men

er for site.

Service designed and the service designed and

ward. 2:25%, and his dam was Caprars, the dam of Dandy Jim, 2:95%, etc., by Daniel Lambert. Red Robe, winner of third money, was got by Red Chute, dam by Arnold, and Red Chute was by Guy Wilkes, 2:15%, out of Baroness, by Baron driver be his own judge of how and where

HOTSERIES

When the property of the property o



heaper or term. He believe that the head of the front of the borne hits on the inside who che for on the ground surface. ALONDO-PLOT JR. LODO DOMING. (It he hits on the inside who che she course the side on the crease on the outside. If he head is low, check up to a to tight extended that the crease on the outside. If he head is low, check up to a to tight extended that the crease on the outside. If he head is low, check up to a to tight extended that the crease on the outside. If he head is low, check up to a to tight extended that the crease on the outside. If he head is low, check up to a to tight extended that the crease on the outside. If the head is low, check up to a to tight extended that the crease on the outside. If the head is low, check up to a to tight extended that the crease on the outside. If the head is low, check up to a to tight extended that the crease on the outside. The crease on the outside that the course of the crease on the outside. If the head is low, check up to a to tight extended that the crease on the outside. If the head is low, check up to a to tight extended that the course of the head is low, check up to a to tight extended that the course of the head is low, check up to a to tight extended that the course of the head is low, check up to a to tight extended that the course of the head is low, check up to a to tight extended that the course of the head is low, the land that the land that the course of the head is low, the course of the head is low, the land the land that the land that

impossible to affirm that she is not bred in strictly orthodox strains. Aberdeen, sire of Antrim, was a very fashionably bred son of Hambletonian, his dam being





# Golden Anniversary

## ...ILLINOIS STATE FAIR... SPRINGFIELD, Sept. 29--Oct. 4, 1902.

"The Greatest Fair on Earth!" \$50,000 in Cash Premiums.

MARTIN CONRAD, President, CHICAGO, ILL.

For information and premium lists address the Secretary.

## **Shoeing Horses** By R. Boyiston Hall.

To close out last edition this book is offered at \$1.00. Send orders to au-hor at No. 8 Exchange Place, Room 8, Boston, Mass.

FISTULA. POLL EVIL. Hamer's Sure Cure

# **Home Circle**

Written for the RURAL WORLD. THE HERMIT.

Of old, within you shadowy wood hermit made his home, spent his days in quiet mood here mortals seldom roam.

omfort found in haunted dells Whose legends 'gan full long ago; To sit among its rocky cells And list with pleasure to the blow

Of maddened winds, of stormy night Of maddened winds, of stormy ingut.

And see the huge trees all around
Go trembling in the whiriwind's flight
And crash upon the conquering groun

He held communion with his soul He reasoned deep on life and death; He found a grandeur in the whole That conquers utterance with the preath

He studied deep the lovely scene That Nature gave him day by day-The beauty of the forest green, The flower, its flourish and decay

He knew but Nature-that was all; stom and to art was blind-wood he found his dearest thrall.

t taught him many a lesson deep; It gave him food and shelter, too; t billed him, with its tones, to sleep It charmed him when it loudly blew.

Se many a year in solitude

He lived with Nature, no one near;

And last, when death did there intrude

He went, and no one shed a tear.

—H. L. TERLY.

Southwest Missouri.

On assuming the dut'es of sponsor for the Home Circle page, I was impressed with a very pleasant and interesting fact; that is, the lively personal interest shown by readers in this department. Special influences have drawn the members of this circle together weekly, in a meeting of a large family group, bound by ties of a common interest—in many cases by warm, personal friendship.

The dignity of years which surrounds the paper and its patrons with an atmosphere of hallowed associations, and the personal influence of Mr. and Mrs Chubbuck, have contributed to this interest.

am beginning to realize that the Home Circle is something more than a printed page. It is the link that binds together a large family in congenial friendship. It is the meeting place, where once each week the members of this family can gather around the fireplace and gain, by communion and interchange of the spark of heavenly fire, lightening our labors, but is, in truth, the electric current, furnishing the motive power for progress, culture and enlightenment.

It is a great privilege to be a member of this family can gather around the fireplace and should be a member of this circle in the street of the street

some each week the members of this fam of can gather around the fireplace and year gather around the fireplace and year and ship, by communion and interchange of eas, that inspiration which is not only the sark of heavenly fire, lightening our lawrence of the great prairie state. We were glad to note the portrait of the total heritage, the four spraints together contribute one-half of the total heritage. The four great prairie state. We were glad to note the portrait of the total heritage and parents one-sixteenth spraints prairies to the parents one-sixteenth and lite remainder of the ancestry one-fourth, the eight great prairies to the prairies together contribute one-half of the total heritage and parents one-sixteenth spraints of the total heritage. The four great prairies to the parents one culture and enlightenment.

It is a great privilege to be a member of this circle in the true spirit of give and take, and having been chosen to pre-side at these meetings, I esteem it a double privilege. Nor am I ignorant of but the old arm chair is better. It is not meet that I should do all of the talk-ing, or, indeed, much of it. I shall rathspeaking is conspicuous by its absence. He should be called the "speakee." I want to urge all who feel the spirit move to give their testimony and opinion on

valuing, kinnan & aarvin, wholesale Druggists, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Price, 75c per bottle. Sold by all Druggists. Testimontals for

Hall's Family Pills are the best.

especially pleasing. I was glad to see the face of "Blue Bells," as her communications were always read with a peculiar interest. I hope sometime to know her personally. I think she admires Mrs. Mary Anderson most because she wrote of the life nearest her heart. Thank you, Dype, for your words of commendation. The summer has been an exceedingly busy one, as the home could easily have been recognized as that of a renter. Many loved plants and shrubs are missing and have to be replaced. One of the pleasures of the summer has been to see the dear father and mother enjoy the plants and out-door life. Though mother is in her eighty-first year, her love for flowers is having a chance for expression. The back porch is fast being filled with pots of plants ready for the winter. Though the garden wasn't plowd until the middle of June, it is furnishing beans, beets, squashes, cucumbers, sweet corn and potatoes. The celery is looking fine.

Editor RURAL WORLD: The Country is a good time to take a splash in a tub of water that has stood on the back porch

wearer."

Want to urge all who feel the spirit move to give their testimony and opinion on any subject of interest. The Home Circle is not a close corporation, nor should any capable ones regard it indolently and contribute nothing except a listening sihene. Whoever has a message in his heart, let him deliver it. He will find that teaching is a great benefit—to the teacher. The deliverance of a message requires that you shall give—give yourself—and he who gives most receives most. We deepen our impressions by recounting them, and he who teaches others teaches himself.

Written for the RURAL WORLD.

AT HOME AGAIN.

Only those who have returned to the old home, replete with memories that stir the heart, can fully appreciate the delight of a home-coming. The old home, where love's vows were made, and where later these vows were made, and where later these vows were chimed in wedding bells, and where the little is on brightened the home for a few brief weeks, and where the little life went out and left the arms so empty and the heart so ad, is filled with tender associations which make it almost hallowed ground.

Then, too, it is so delightful to receive

men were broken on the wheel, now they buy

Electric Steel Wheels, and save money. They fit any wagon. Made with either staggered or straight spokes. Let us fell you how to make a low down width tire. Catalog tells. It's free. Electric Weel Ca., Sas 74, Quinez, III

vercome by selective breeding. In racehorse breeding, if the ancestry has been good for three or four generations the est are not considered.

rest are not considered.

Mediocre parentage has little or no influence on the talents of offspring.
"Among mankind we trust largely for our exceptional men to extreme variations occurring among the commonplace."
Men of genius are necessarily isolated, in that they possess but few relations exceptionally gifted.—From the Medical Record.

"SMART SETS" AND OTHER SETS.

ninds of some nervous lovers of plain ving and its intellectual accompaniment hat America is fast reaching that point and left the arms so empty and the beart so ad, is filled with tender associations which make it almost hallowed ground. Then, too, it is so delightful to receive the warm greetings of old-time friends and the hearty welcome given on our return. Many of the boys and girls welct (who were former pupils) have now homes of their own. We meet them, and at times have to stand and jostic the names and faces in memory's store-house to recognise them, while they enjoy huge to recognise them, while they enjoy huge have to recognise them, while the love resists the lady's rose and the control of the control of the control of the latter of the measured them, while the love resists the lady's rose and the property and the latter than the latter the control of the latter than the latter the control of the latter than the latter the city, with its and the latter than the latter the city, with its advantages, to dwell in a rural town. The coll in luxurious living that must result in ultimate downfall, says the "Chicago Tribune." "Nobody living outside New

set" may be increasing, but is more than outnumbered by that commendable class known as the philanthropic set. The historian who is to write "The Decline and Fall of the American Republic" need not yet prepare to take notes.

THE POINT OF VIEW

At its wors:
surrounded, straight it wanes

-Edwin L. Sabin, in Saturday Evening

the middle of June, it is furnishing beans, beets, squashes, cucumbers, sweet corn and potatoes. The celery is looking fine. We really think it is marvelous even for an ex-editor's garden, but father Chubbuck always was a master hand in a garden. The rains have kept all vegetation fresh and green, and all efforts at replanting are being duly rewarded. We hope in due season to report our success, though perhaps they may be failures. We only wonder why small fruits should be neglected, when a little care will give englected, when a little care will give englected, when a failure of report our success, though perhaps they may be failures. We only wonder why small fruits should be neglected, when a failure of repose; hence if a man east o times, than in one. If, for example, he can be system and every set of muscles, each its rightful share, the stomach among others.

When the external body gets weary after a long day's work, the stomach bears its share of the fatigue, but if, when the body is weary with the day's toil, we put it to bed, giving the stomach meanwhile a five hours' task which must be performed, we impose upon the very best friend we have—the one that gives us one of the largest amounts of earthly enjoyment—and if this overtaxing is continued it must as certainly wear out prematurely as the body itself will if it is overworked every day.

And if persons eat between meals then the stomach has no rest from breakfast in the morning until 1, 2, 3 or 4 o'clock next day; hence it is that so many persons have dyspepsia. The stomach is worked so much and so constant'y that it becomes too weak to work at all.—Ex.

THE QUESTION OF HEREDITY.

Prof. Carl H. Eigenmann of Indiana University, in a recent issue of the Populies of the stomach is worked to the content of the population of the pop

dall and Ruskin. They were greatly surprised when it was discovered that only twenty of the hundred had received colwenty of the hundred had received col-ege educations. The others were se'f-ducated, or had studied under tutors at some. This must have been more than a oincidence, and to my mind it is a re-parkable commentary on the success of he modern system of education. It neans that the young man who can only fudly at night is under no handicap in he race for success because he is unable the race for success because he is unable

economical, for though its first cost is greater, the extra expense is made up in wear and appearance. It should hardly be necessary to say table linen should rereater, the extra expense is made up in wear and appearance. It should hardly be necessary to say table linen should refer to the best of care, yet very often beautiful damask is spoiled long before it has begun to show wear. Carelessness in folding is accountable in part for this. The neglect of stains accidentally made during a meal and not unfrequently when the table is cleared is as fatal as the faults of the laundry. All fruit, coffee or tea stains should be used. Wash out coffee and tea stains with cold water. Warm etchorine water is also remommended. Almost very sort of stain can be removed if treated properly at the time it is made.

When packing has wrinked or crushed in the clothing, a vigorous shaking, after which to hang or spread it out in a hot room for some hours, will greatly improve the appearance.

If when packing has wrinked or crushed in the clothing, a vigorous shaking, after which to hang or spread it out in a hot room for some hours, will greatly improve the appearance.

If when packing has wrinked or crushed in the province of the

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# **Poultry**

HEWES-RUSSELL These Two Prominent Judges Will Make the Awards at the St. Louis Fair.

October 6th to 11th, 1902

The twenty-fourth annual "Great St Louis Fair" will take place this yea Oct. 6th to 11th, 1962. The Foultry De partment, as usual, will be one of it strongest features. The classification is ever, and with two such judges as Theo. Hewes and W. S. Russell, exhibitors can her, who gave such good satisfact last year as assistant superintential superintentia ou birds to Superintendent Poultry De-partment, St. Louis Fair, and we will do bartinest, St. Louis Fair, and we will do the rest. Premium list and entry blanks now ready. Address John Hachmeister. Secretary, St. Louis Fair, St. Louis, for a copy, which will be mailed free. For further information, etc., address Henry Steinmann Superiorates. Paris

### SPRING CHICKENS.

A letter from Danville, Ill., to "Tuck's Producer," says that dealers all over the country are complaining of the scarcity of apring chickens. They say it is surprising how prices of poultry continue to hold, especially on hens. This would indicate that there is a scarcity of poultry in the country; otherwise the high prices would induce shipments heavy enough to keep down prices. Springs have been so high ever since the first of July that nothing has been done in the way of putting away broilers. Those who are in the habit of putting them away hesitate to do so at these prices, and if they continue, the amount to go into cold storage this season may be light. Even if it should, there will be no dearth of broilers, as three or four thousand boxes, as near as can be learned ever still. from last season's pack. The cocks and turkeys were entirely cleaned up some time ago. All the broilers put away unson at prices that would yield to the holdwhile they are confident they will site to take that, and in holding for more lost the chance to clean up this season. While broilers will carry all right for two seasons, they are not as desirable as the fresh season's goods, and always have a depressing influence on the price of the latter. This fact will deter some speculators from going into the broiler storage business this year.

### Educational Notice.

study at night is under no handlean in the race for success because he is unable to spend four years in college. It is possible that stands a better chance than the college graduate.

THE FEMININE MIND.

A man can very seldom tell what is passing in r. woman's mind. He talks with another mas, and he can follow his processes; he gets his point of view; he can read between the lines; he can make a shreed guess as to how he came to say that or he refrained from saving the an annual read of the street of the same to say that or he refrained from saving the same with the same to say that or he refrained from saving the same with the same to say that or he refrained from saving the same with the same to say that or he refrained from saving the same with the same to say what she will say next, and you all the same to say what she will say next, and you all the same to say what she will say next, and you will find that you are all at sea.

The man who says that he understands woman is himself a woman. No man can understand a woman. No man can understand her. There may exist between his soul and hers that indefinable and celestial sympathy which is the sweetstet thing on earth, but he does not understand her. There is not quite certain. A greater part of the delight that men find in the companionship of women in mind in the companionship of women in scum on the surface which resembles ice, and may be that product. Each vat has a capacity of from 8,000 to 10,000 dozen.

# The "1900" Ball-Bearing Family Washing Machine is Absolutely Indispensable in Every Home.

NECESSITY

More Rubbing, Stooping, Boiling, or Wearing Out of Clothes Saves Time, Labor and Expense. Only Perfect Washer Made.

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reated for family use. Emitrely new principle. It is simplicity itself. It revolves on blood of arings, making it by far the easiest running washer on the market. Go strength required. No more stooping, rubbing, rubbing, boiling of clothes. How waster and soap all that is needed. It wis have go a summittee of clothes (so matter how solide) perfectly clean and the most delicate material in the state of the

ABSOLUTE PROOF FROM USERS OF THE "1900" WASHER. Not Genuine.

GOLDEN GATE, ILL., May 6.

Please find no closed remittance for your
er. I cannot praise it too high. I don't at

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accept my heartfelt thanks to you, for it
first free trial that I ever sent for that we
deed free.

Mas. Carme 872F

REMEMBER—You take absolutely no risk, incur ne expense or obligation whatever. The washer is sent by us on 30 days' trial, freight prepaid going and coming, and positively without any ad-vance or deposit of any kind.

For catalogue and full particulars of this libe and absolutely genuine offer, address "1900" WASHER CO. 2318 STATE STREET, BINGHAMTON, H.

BUTLER, N. J., October 22.

Your washer is the best and easiest ever I never saw its equal. One of my sons, who eagineer, gets his over-clothes very dirty, have been washed by your "1990" Washer;

While they are confident they will successfully market these birds, Supt. Smith of the Central Park Zoo, who looks after the interests of a single ostrich on his meat of the bird is tough. I never heard of anybody eating it."

Vacation is over. Again the school bell rings at morning and at noon, again with tens of thousands the hardest kind of work has begun, the renewal of which is a mental and physical strain to all except the most rugged. The little girl that a few days ago had roses in her cheeks, and the little boy whose lips were then so red you would have insisted that they

and removing the cause; but so long as the damp condition remains, no permanent cure can be assured.

the damp condition remains, no permanent cure can be assured.

The treatment of real roup is difficult, and often quite unsatisfactory. Washes made out of borax and water, or carbolic acid and water are used, and in extreme cases sulphate of copper is used, in solution, to inject into the nostrils and to wash out the throat and eyes. This is rather severe and painful, and should be used with care. One ounce of the sulphate of copper to 20 ounces of water is strong enough. Peroxide of hydrogen is also used. When roup is present, wash out head, nostrils, eyes and throat twice a day with one of these washes; dry the face and eyes, and annoint with vaseline; keep the sick fowls in a warm, dry place, and feed atimulating food.—Country Gentleman.

Filthy drinking water in the sumr time is a sure disease breeder. Provide shallow drinking vessels and fill them twice a day; it will require a little extra time, but it will pay in the long run.

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and write today for our 80-page Grocery List. We send it FREE to heads of families. It will enable you to save 15 to 40 per cent on your eries. Our shipments go every re and always prove satisfact. Write for Grocery List today. Montgomery Ward & Co.

\$5.00 BUYS a Trie, choice young stock. \$1.00 pays for 15 Eggs, either Brown Leghors White Leghorn, Barred Bock, White Rock, Black Kinsorca, or White Wyandotte. Illustrated citcalar of fowls and building free. B. W. GEBR, Farreningston, Mo.

PURE BLACK BREASTED RED GAMES. Cockerels \$1.50, Hens \$1.00, Trie, \$3.

Eggs in season, \$1.00 per 13.

Mra. L. M. MONSEEES,

LIMESTON, VALLEY PARM. SMYPHYON, NO

1883—SATISFACTION—1902. GILT-EDGE strain—Lt Brahmas; S.L. Wyandettes, Fine Ook-creis and Pullets for sale. Right prices. My stock will do you good. H. T. REED, Camp Point, ill.

Rocky Hill Poultry Farm Breeds.—An has for sale thoroughbred Poultry; Wyandottes the Control of the Control of the Control and Buy Ware Lees, Colden Laced, White and Bronze Turkeys, winsers wherever show and Bronze Turkeys, winsers wherever show Good breeders and exhibition bried at reasonable prices. Salisfaction guaranteed. JOHN A. SHAW, Boy 26, McKittrick, Mo.

PLYMOUTH ROCKS — CLOSING OUT SALE - Baff and White Young and yearling stock. Write for bargain price aplended opening for the right party. MEPERTHE FOULTRY RANCH, New Florence, Mo.

BARGAINS in Buff Wyandottes, Buff Cochins, Buff and White Holland Turkys. Satisfaction guarateed. Mrs. M. E. OBEWILER, Shelbyville, Mo.



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ALEX. SPEIRS, Box 834 Westbrook, Maine. \$21.00 TO NEW YORK



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F. D. GILDERSLEEVE, ant. Bes'l. Peac. Agent,

state.

The cause of hog cholera is a germ. It differs from the germs of other contagous disease. The identical germ of hog cholera can be propagated the same as any grain. Whenever it gains access to the system of the hog it multiplies, and unless the animal is immune, produces the disease. There are very few hogs under natural conditions that are immune from cholera, therefore, it is the rule that, whenever the germs are conule that, whenever the germs are conerd an outbreak of cholera is the result toms.-The United States Depart-





of the yards late in the day. The lambs being stiff and sore are unable to make any effort to find their mothers, and these being hungry rush away to grase until it is too dark for them to find their lambs. It is a great advantage in every way to do this work in temporary pens put up on or near where the sheep are grasing, and this practice is now followed by all who possess any knowledge of sheep management.

It is not wise to operate in the heat of a very hot day, but when there are a large number to do it is not convenient to avoid unsuitable weather on all occasions. The more quietly the flock is yard-

# They Don't Get the Cholera.

ZENNER DISINFECTANT CO., streit, Mich.

35 Exchange Ave., Union Stock

## The Shepherd

promise adequate returns. As the article has been copied from our columns by several other papers, we are glad to make this correction and give credit to the "Michigan Farmer" for a very useful and timely piece of information which sheepmen should take to heart.

CASTRATING AND DOCKING LAMBS.

hrough castration and docking if they are done before they get too big, and if care is taken to avoid performing the

operation in foul premises.

Blood poisoning is terribly fatal and
far-reaching, and may arise from a trivial
cause, such as using a dirty knife or earpunch, and too much attention cannot be
paid to perfect cleanliness in everything
that comes into contact with wounds
made in operating.

Lambs are often lost at tailing time by
not being mothered at once, especially

not being mothered at once, especially when done in large lots, and turned out of the yards late in the day. The lambs

Was not the state of the state

## ANCORA COATS FOR SALE.

I have on hand one thousand head of recorded and high-class does and five hundred wethers at Morris, Kansas, ten miles west of Kansas City. If you are in need of any kind, sort or aize of Angora Goats, you would do well to correspond with me before purchasing elsewhere.

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Best breeding and individuality. Harly spring Pigs, both sexes by Chief Eclipse 22499, co acted 37166 and Sunshine Chief 27156 for sale at reasonable prices. Address 30 mi. E. K. C. E. AXLINE, Oak Grove, Mo.

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Prize winning Berkshires and Shorthorn Cattle—young stock—for sale at all nee. Address HARRIS & McMAHAN, Lamine, Mo.

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HAMPSHIRE DOWN SHEEP. Best sheep on earth to cross on other breeds. Sheep of all ages for sale at a bargain. Oldest flock in the state. Write for prices. JAMES W. TUENER, Sheibyville, Mo., Box 144.

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70 SHROPSHIRE BUCKS and 70 EWES; well marked low 70 down blocky sort, for sale right. Address, ROBT. BAGNELL. Koping, Saline Co., Mo.

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McFADDEN BROS., West Liberty, la. CHAMPION PLOCKS. GEO. McKERROW & SONS,
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LIVE POULTRY-Hens at 10c, roosters ; spring chickens, per lb., 11½c. Spring leks 10@11½c. Spring geese 9c. Turkeys 12½c old; spring 12½c. Ducks 7½c. Live geons and squabs #1 per dos. Geese

pigeons and squabs at per dos. Geene A<sup>1</sup>/<sub>2</sub>c.

COTTON—Ordinary, 7 3-16c; good ordinary, 7 13-16c; low middling, 8½c; middling, 8½c; middling, 8½c; middling, 8½c; middling sair, 9½c.

WOOL—Missouri and Illinois—Choice combing and cloth, medium, 12@18½c; braid, 15½c/217c; burry and clear, mixed, 15 (17c; hard burry, 10@11c; burry, 14@14½c; light fine, 15@13c.

HONEY-Comb: Dark, 608c; bright arber, 19611c; fancy white clover, 13c; Southern in bbls. at 44,644c; in cans, 56 Mc.; California cans, 6644c.
BEESWAX-Quiet at 25c per lb.
BROOM CORN-Nominally firm. Per on: Fair \$5660; common \$40650; choice 185665.

POF CORN (On Cob)—Choice white #2 per 100 lbs., rice worth \$2.50, mxd. \$1.50, new \$1.50@2. GRAPES—40@60c per ½-bu. basket for

oncords. WATERMELONS—\$60@100 car and \$9@12

per 100 in a jobbing way. CANTALOUPES—Rocky Ford refriger-ator #1 a pony crate and \$1.50 per stand-

ard crate.
PEACHES—Michigan bu. baskets, 75c@ \$1.25 for choice and 25@59c for poor, and ½-bu. baskets at 60@65c; Missouri 6s at people. Of twentieth century birth this \$1.25@1.75 and 4s at 40@50c; Arkansas 4s at fair has already put off its swaddling

PLUMS—Home-grown and near-by Newman at 65c per ½-bu. basket; Dam-sons at 90@5c per ½-bu.; Michigan Lom-bard at 75c@\$1 per bu. basket.

PEARS—¼-bu. basket common, 25c; Duchess, Howell and russett, 25@30c; Seckel, 30@35c, and Bartlett, 40@50c. Bbls.; Duchess, \$1.75@2.25; Seckel, \$2.25@2.50; Michigan Bartletts,\$1.25 per bu. and Eastern at \$3.50 per bbl.; Keifer at \$1.75@2 per bbl.

CRAB APPLES-Michigan Hyslops at

2.75 per bbl.
POTATOES—Near-by Ohio from farmrs' wasgons 35640c for bottom stock to 42
1955 for bluff stock.
ONIONS—Weathersfield 40642c for red
and 33640c for yellow; red globe 45650c
or choice; white 75655c; pickling onions
1 3561.50 per bu. loose.

.25@1.50 per bu. loose. SWEET POTATOES—Yellow and Queen

gress and considerable grain in stack is being greatly damaged. Cotton, in the southeastern counties, is opening rapidly and picking is in progress, with fair yields. A heavy crop of tobacco has been cut in Carroll and Putnam counties. Potatoes are being dug and sorghum making is in progress, and both crops are above the average, though there is con-siderable complaint that potatoes are rotting and taking second growth. Tomatoes and cabbages are also rotting badly in some sections as a result of the cool and damp weather. Turnips are making a fine growth and all late forage crops are ex-cellent. Pastures are improving in the southeastern counties and are generally in excellent condition in other sections. Apoutheastern counties and aregenerally in keellent condition in other sections. Ap-les continue to rot and drop badly in ome places, especially in the southern ounties, and in a few counties consider-ble damage has been done by high rinds, but as a rule the crop is maturing

and the state fair circuit for 1902 was open-ed at Sedalia, Mo., under auspices that were most favorable from first to last. To begin with, the state never enjoyed great-er presperity, due to good crops and good prices, and these combined with good business enterprise on the part of her people. Of twentieth century high this 75:6(\$41.

APPLES—\$29.2.25 and fancy up to \$2.50 a so of the great fairs of the circuit. bbl. to \$2.7503 for extra fancy high-colored stock; poor to fair, \$1(\$91.50.) ered as having been permanently estab-lished, and the management in providing nediate needs has fostered the insts of the future. This is shown in e design of the grounds and the charac e, adaptability to required purposes and eneral convenience for spectator and exure, adaptability to required purposes and general convenience for spectator and exhibitor the buildings at Sedalia are nowhere surpassed in this country. Stables are well lighted, airy and convenient. The amphitheater is a steel framed structure, with a seating capacity of 16,000 at present, its design making additions possible without any disfiguration. The mile race track is also conceded to be one of the best in the West.

But buildings alone can not make a

But buildings alone can not make ccessful fair, as the best is only a cans to an end. Coming to the special atures which contributed to the success means to an end. Coming to the special features which contributed to the success of the fair one instinctively turns to the live stock department, as this is the backbond at 600,655 per bu. box.

SORG. CANE SEED—Best 31.25 per 100 lbs.

SORGHUM—Prime new 20,625 per gal. MAPLE SUGAR AND SIRUE—New surgar, Sc per lb.; Canadian at 12c; maple sirup at 600,660 per gallon.

GRASS SEEDS—Millet, 76,960; timothy \$3.20,63.70; clover \$36,675; new redtoop \$36,75.

HORSES—The beginning of the second week of September witnessed a very good great movement in the market, the only restricting element in the market perhaps being the insufficiency of horses of the good and proper classes. A good line of buyers were congregated in the auction ring this morning, and with a run of about 125 head, some of very good class, the action was pretty lively. Drivers of class particularly sold strong and satish the classing in a fair ty leid of times.

May Lee SEED—S—Millet, 76,900; timothy \$3.00,83.70; clover \$36,8.75; new redtoop \$36,75; new re

The control of the force of the control of the con

be seen that the Poland-Chinas are not behind any other breed of either cattle or nogs. A great show is now assured, the required number of sale hogs is almost made up, and the consignments are from the best herds in the country. The quality of the hogs in this sale will probably be higher than was ever before known in a sale of this kind, as each contributor will be anxious that his consignment makes a good average.

makes a good average.

It is estimated that from 40,000 to 50,000 will attend the "American Royal," and the advertising that will be derived from making a display at this show or sale will

The premium list will be held open until the last minute to give those desiring aid this great enterprise an opporunity to offer a special on some class, and there should not be a Poland-China preeder in the United States but who willing to help the cause in ne way. The fact that the managing amittee has, in the face of many dis-pointments and discouragements, gone appointments and discouragements, gone ahead with the show and taken the risk of financial loss, should be, I think, appreciated by the Poland-China fraternity, and some substantial proof of that appreciation be made.

I shall be glad to furnish any information desired concerning this show or sale,

I shall be glad to furnish any informa-tion desired concerning this show or sale, and hope to yet hear from all those who have taken no part in this show. FRANK D. WINN, Secretary Poland-China Committee.

OHIO CROP NOTES.

Editor RURAL WORLD: The month of

prospects. Apples will be plentiful; some pears; very few plums or peaches; plenty of grapes. A fair yield of potatoes; from one pound of the Bovee we raised \$5 pounds of potatoes; all good size; no small ones; they were planted in garden soil, but without any fertilizer of any kind and very little cultivation; only hoed a couple of times.

Grain has dropped in price; considerable wheat selling now at \$6c a bushel; oats, 30 cents; corn, 40 cents; potatoes, 35 cents; apples, 25 cents; butter, 16 cents; eggs, 16 cents.

The Markets

WHEAT—No. 2 red off-office; No. 3 red off-office; No. 4 red off-office; No. 2 red off-office; No. 2 red off-office; No. 2 red off-office; No. 3 red off-office; No. 3 red off-office; No. 2 red office; No. 2 red offic the chickens, and I coulted yearchas in the heads on one stalk, which was broken two or three weeks ago. Many others have from two to four heads. We think it a very profitable crop. Many men refused to plant this year, giving as their excuse that the birds eat it up before gathering time. Though we have lots of these feathered visitors, they have not sproved so destructive with us, as they have scarcely touched it, probably preferring the fruit instead, as it is planted in the orchard, and our fruit crop was immense, as the broken condition of a number of our trees will testify. So you see we have sufficient to allow the birds a bountful feast every day to satisfy their thunger as well as to save the chicken feed—the Kaffir corn.

This August sun, how it erything exposed to its burning rays en my fruit, which is drying very fast and as satisfactory as though it was in a urnace. So with the good man cutting orn and I drying fruit, we are making the August sunshine serve us in a good

corn and I drying fruit, we are making the August sunshine serve us in a good capacity.

Yes, it is hot work, but is best done in a dry time if done well. One neighbor told my husband he wanted to put up some corn fodder, and commenced work putting a few shocks, and quit, concluding the weather was too hot and dry for such work. The same man advised him to hold his surplus alfalfa until about Christmas, as scarcely any one here put up feed enough to run them longer than that time, and he would be sure to sell for a good price.

Well, now is a good time to close, as Oscar has brought in a Georgia rattle snake to be devoured—cool and nice from the storm cellar, where it was stowed away early this morning. How I wish our editor had a haif of it. If he is fond of watermelons he would enjoy one of

of watermelons he would enjoy one of this variety, as they are very sweet and tender. More anon. A. GREENER.

ELAM FARM NOTES.

Editor RURAL WORLD: Thus far Au gust has been almost an ideal summer month, except a storm about the middle of the month, which did considerable damage to the corn crop. The lightning destroyed a neighbor's barn. He carried of the month, which did considerable of August has been unusually cool, with very little rain, so it is getting rather dry and very dusty roads. Farmers are busy preparing ground for wheat; threshing is well under way; too many threshing rigs in this township for the good of the thing; grain is turning out quite well; wheat from 20 to 40 bushels to the acresoats as high as 80 bushels, one of the best oats averages for the number of acres is 2,345 bushels on 3½ acres; another good yield is 600 bushels from seven acres. Corn is looking good so far, but needs warm weather to ripen it. Pastures in fair condition yet. Late potatoes look good and will make a fair crop at present prospects. Apples will be plentiful; some pears; very few plums or peaches; plenty of grapes. A fair yield of potatoes; from one pound of the Bovee we raised 35 pounds of potatoes; all good size; no small ones; they were planted in garden

soon begin; we have a field of early corn that must be put in shock the coming week. The corn on the uplands is stand ing fairly well, while on the lowlands it is badly lodged. The corn we drilled with-

nd for wheat sowing. Threshing has een hindered very much, and a great eal of grain and flax damaged, and hay that was not well stacked is being in

Fortunately we got our own threshing Fortunately we got our own threshing done before too much rain fell. We bound 80 acres of red top and secured over 1,200 bushels of as good seed as one would wish to see. We are trying the best we know how to get our entire farm, except a few lots and some prairie meadow, sowed to red top, and have named our place Red-Top Farm. We have "hay seed" to sell. C. A. BIRD. Bellamy, Vernon Co., Mo.

SOWING CLOVER SEED IN THE FALL.

Editor RURAL WORLD: Would vo

Editor RURAL WORLD: Would you advise fall or spring for sowing clover seed for best results? I want to sow some wheat now and would like to sow the clover with it. Some say it is not a good plan. Respectfully, Brumley, Mo. CLYDE THOMPSON. REPLY.—We have had best results in sowing clover in spring, usually the latter part of March. If you have snow on wheat in February or March it is a good time to scatter clover seed. We have heard of good results in fall sowing. The RURAL WORLD would be glad to get reports from those who have been successful in sowing clover seed in the fall. essful in sowing clover seed in the fall.

cessful in sowing clover seed in the fall.

NOTES FROM THE SCIOTO.

Editor RURAL WORLD: This has been a wonderful season on the marsh. At seeding time the ground was very dry, and as a result the continued high winds did much damage to the onion crop, destroying probably one-third of the acreages sown, which was about 1,100 acres. The crop is thin on the ground on the remaining acreage, with, however, an occasional field which is good. Late frosts did much damage to onions; also to the carly planted corn and potatoes. We had it very dry until about June 20, since it very dry until about June 20, since then we have had an abundance of showthen we have had an abundance of showers, which has rendered efficient weeding perry difficult and smothered out some patches entirely, and while weeding usually ends about July 1 to 10, yet it is in progress at this writing (Aug. 7) in some fields, and is likely to continue until pulling begins. It was thought for awhile hat the crop would be lighter than last year's light crop, but we have had magnificent onion growing weather now for the last month, and it is thought now that the crop may exceed that of last year by 25 per cent.

Corn is promising a fine crop now, but some fears are entertained of an early killing frost, as the nights are so cool, and at least two mornings recently a little frost was seen. Corn on upland is probably two weeks ahead of marsh corn. Early potatoes are a good crop generally.

Threshing is progressing rather slowing the control of the progressing rather slowing the poor policy to try sowing clover at all in the fall. When I sow clover I never expect a fall-when I sow clover I never expect a fall-when I sow clover I never expect a fallrs, which has rendered efficient weeding

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of bugs, and now I don't believe I will get one barrel from the barrel of seed planted, and if I eat potatoes I shall have

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